Docket No.: K-0316 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :

Dong Hi SIM :

Serial No. New U.S. Patent Application :

Filed: August 31, 2001 :

For: METHOD FOR PROCESSING SIGNAL IN COMMUNICATION SYSTEM HAVING PLURALITY ANTENNAS

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D. C. 20231

Sir:

Prior to initial examination on the merits, please amend the above-identified application as follows:

IN THE CLAIMS:

Please amend claims 11 and 15 as follows:

11. (Amended) A method as claimed in claim 8 [or 9], wherein the greatest proper value λ of Ryy$\underline{w}$ - λRxx$\underline{w}$, which is a generalized Eigenvalue problem, can be calculated by

$$\lambda = \frac{\underline{w}^H R_{yy} \underline{w}}{\underline{w}^H R_{xx} \underline{w}}$$ with respect to 'H', the Hermitian operator.

15. (Amended) A method as claimed in claim 13 [or 14], wherein the greatest proper value λ of Ryy$\underline{w}$ - λRxx$\underline{w}$, which is a generalized Eigenvalue problem, can be calculated by

$\lambda = \dfrac{\underline{w}^H R_{yy} \underline{w}}{\underline{w}^H R_{xx} \underline{w}}$ with respect to 'H', the Hermitian operator.

Clean Set of Amended Claims

11. (Amended) A method as claimed in claim 8, wherein the greatest proper value λ of Ryy$\underline{w}$ - λRxx$\underline{w}$, which is a generalized Eigenvalue problem, can be calculated by

$$\lambda = \frac{\underline{w}^H R_{yy} \underline{w}}{\underline{w}^H R_{xx} \underline{w}}$$ with respect to 'H', the Hermitian operator.

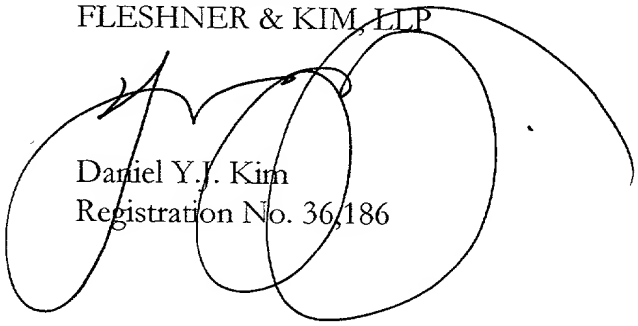
15. (Amended) A method as claimed in claim 13, wherein the greatest proper value λ of Ryy$\underline{w}$ - λRxx$\underline{w}$, which is a generalized Eigenvalue problem, can be calculated by

$$\lambda = \frac{\underline{w}^H R_{yy} \underline{w}}{\underline{w}^H R_{xx} \underline{w}}$$ with respect to 'H', the Hermitian operator.

REMARKS

Claims 1-15 are pending. Claims 11 and 15 have been amended to eliminate the multiple dependency. Prompt examination and allowance in due course are respectfully solicited.

Respectfully submitted,
FLESHNER & KIM, LLP



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